

## ABSTRACT

In a plant containing a turbo-generator the magnetic circuit of the turbo-generator is included in an electric generator which directly  
5 supplies a high supply voltage of 20 - 800 kV, preferably higher than 36 kV. The insulation of the generator is built up of a cable (6) comprising one or more current-carrying conductors (31) with a number of strands (36) surrounded by outer and inner semiconducting layers (34, 32) and intermediate insulating layers (33). The outer  
10 semiconducting layer (34) is at earth potential. The phases of the winding are Y-connected. The Y-point may be insulated and protected from over-voltage by means of surge arresters, or else the Y-point may be earthed via a suppression filter.

(Figure 2.)